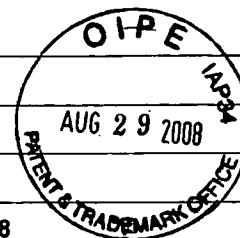


INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC718-2-US	Serial No.: 10/524,234
First Named Inventor: Blattmann, Beat O. et al.	Examiner: Rebecca E. Prouty
Filing Date: December 1, 2005	Art Unit: 1652
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US PATENT DOCUMENTS

Examiner's Initial	Document Number	Publication or Filing Date	Name of Applicant or Patentee	Class	Sub-Class	Filing Date
A1	4,179,337	12-18-79	Davis et al.			
A2	4,301,144	11-17-81	Iwashita et al.			
A3	4,496,689	01-29-85	Mitra			
A4	4,640,835	02-03-87	Shimizu et al.			
A5	4,670,417	06-02-87	Iwasaki et al.			
A6	4,791,192	12-13-88	Nakagawa et al.			
A7	5,034,506	07-23-91	Summerton et al.			
A8	5,235,033	08-10-93	Summerton et al.			
A9	5,510,471	04-23-96	Lebrun et al.			
A10	5,571,706	11-05-96	Baker et al.			
A11	5,644,048	07-01-97	Yau			
A12	5,750,871	05-12-98	Moloney et al.			
A13	5,773,269	06-30-98	Somers et al.			
A14	5,876,997	03-02-99	Kretz			
A15	6,039,942	03-21-00	Lassen et al.			
A16	6,066,725	05-23-00	DeBoer et al.			
A17	6,110,719	08-29-00	Kretz			
A18	6,139,902	10-31-00	Kondo et al.			
A19	6,190,897 B1	02-20-01	Kretz			
A20	6,221,644 B1	04-24-01	Berka et al.			
A21	6,261,592 B1	07-17-01	Nagashima et al.			
A22	6,855,365	09-26-02	Short et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Publication or Filing Date	Name of Applicant or Patentee	Class	Sub-Class	Translation Yes/No
B1	EP 0 684 313	29.11.95				
B2	WO 87/05330	11.09.87				
B3	WO 01/09333	29.11.01				

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B4	WO 01/36607	25.05.01				
B5	WO 02/48332 A2	20.06.02				

OTHER DOCUMENTS

Examiner's Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
C1	Al-Batshan, H.A. et al., "Duodenal calcium uptake, femur ash, and eggshell quality decline with age and increase following molt," <i>Poultry Science</i> , 73(10):1590-6, 1994.
C2	Altschul, S.F. et al., "Basic local alignment search tool," <i>J. Mol. Biol.</i> , 215(3): 403-410, 1990.
C3	Altschul, S.F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Res.</i> , 25(17):3389-3402, 1997.
C4	Aplin, J.D. et al., "Preparation, Properties, and Applications of Carbohydrate Conjugates of Proteins and Lipids," <i>Critical Reviews in Biochemistry</i> , 10(4): 259-306, 1981.
C5	Beaucage, S.L. et al., "Deoxynucleoside phosphoramidites-A new class of key intermediates for deoxypolynucleotide synthesis," <i>Tetrahedron Lett.</i> , 22(20):1859-1862, 1981.
C6	Benton, W.D. et al., "Screening λ gt recombinant clones by hybridization to single plaques in situ," <i>Science</i> , 196(4286):180-182, 1977.
C7	Birnboim, H.C. et al. "A rapid alkaline extraction procedure for screening recombinant plasmid DNA," <i>Nucl. Acids Res.</i> , 7(6): 1513-1523, November 24, 1979.
C8	Bolli, M. et al., "α-Bicyclo-DNA: Synthesis, Characterization, and Pairing Properties of α-DNA-Analogues with Restricted Conformational Flexibility in the Sugar-Phosphate Backbone," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 100-117. Washington, D.C.: American Chemical Society, 1994.
C9	Botstein, D. et al., "Strategies and applications of in vitro mutagenesis," <i>Science</i> , 229(4719): 1193-1201, 1985.
C10	Brill, W.K.D. et al., "Synthesis of oligodeoxynucleoside phosphorodithioates via thioamidites," <i>J. Am. Chem. Soc.</i> , 111(6): 2321-2322, 1989.
C11	Brisson, N. et al., "Plant Virus Vectors: Cauliflower Mosaic Virus," In <i>Methods for Plant Molecular Biology</i> , edited by A. Weissbach et al., pp. 437-463. New York: Academic Press, 1988.
C12	Brisson, N. et al., "Expression of a bacterial gene in plants by using a viral vector," <i>Nature</i> , 310(5977): 511-514, 1984.
C13	Brogliè, R. et al., "Light-regulated expression of a pea ribulose-1,5-bisphosphate carboxylase small subunit gene in transformed plant cells," <i>Science</i> , 224(4651): 838-43, 1984.
C14	Cadwell, R.C. et al., "Randomization of genes by PCR mutagenesis," <i>PCR Methods Appl.</i> , 2(1): 28-33, 1992.
C15	Carlsson, C. et al., "Screening for genetic mutations," <i>Nature</i> , 380(6571):207, 1996.
C16	Clunies, M. et al., "Effect of dietary calcium level on plasma proteins and calcium flux occurring during a 24 h ovulatory cycle," <i>Can. J. Anim. Sci.</i> , 75(3): 439-444, 1995.

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C17	Committee on Food Chemicals Codex, "Phytase Activity," In <i>Food Chemicals Codex</i> , pp. 808-810, Washington, D.C., National Academy Press, 1996.
C18	Coruzzi, G. et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit, of ribulose-1,5-bisphosphate carboxylase," <i>The EMBO Journal</i> , 3(8): 1671-1679, 1984.
C19	Creighton, T.E., <i>Proteins: Structures and Molecular Principles</i> , pp. 79-86, San Francisco, W.H. Freeman & Co., 1983.
C20	Cromwell, G.L. et al., "Phosphorus-a key essential nutrient, yet a possible major pollutant - its central role in animal nutrition," In <i>Biotechnology in the feed industry</i> , edited by T.P. Lyons, pp. 133-145, Nicholasville, KY: Alltech Tehcnical, 1991.
C21	Cromwell, G.L. et al., "Efficacy of phytase in improving the bioavailability of phosphorus in soybean meal and corn-soybean meal diets for pigs," <i>J. Anim. Sci.</i> , 71(7): 1831-1840, 1993.
C22	Damron, B.L. et al., "Calcium supplementation of hen drinking water," <i>Poult. Sci.</i> , 74(5): 784-787, 1995.
C23	Dassa, J. et al., "The complete nucleotide sequence of the Escherichia coli gene appA reveals significant homology between pH 2.5 acid phosphatase and glucose-1-phosphatase," <i>J. Bacteriol.</i> , 172(9): 5497-5500, 1990.
C24	Dayhoff, M.O. et al. "A Model of Evolutionary Change in Proteins," In <i>Atlas of Protein Sequence and Structure</i> , edited by M.O. Dayhoff, 5 supp. 3, pp. 345-352, Silver Spring, MD, National Biomedical Research Foundation, 1978.
C25	Dempcy, R.O. et al., "Synthesis of a thymidyl pentamer of deoxyribonucleic guanine and binding studies with DNA homopolynucleotides," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92(13): 6097-6101, 1995.
C26	Eckert, K.A. et al., "DNA polymerase fidelity and the polymerase chain reaction," <i>PCR Methods Appl.</i> , 1(1): 17-24, 1991.
C27	Edge, A.S.B. et al., "Deglycosylation of glycoproteins by trifluoromethanesulfonic acid," <i>Analytical Biochemistry</i> 118(1): 131-137, 1981.
C28	Egholm, M. et al. "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules," <i>Nature</i> , 365(6446): 566-568, 1993.
C29	Egholm, M. et al., "Peptide nucleic acids (PNA). Oligonucleotide analogues with an achiral peptide backbone," <i>Journal of the American Chemical Society</i> , 114(5): 1895-1897, 1992.
C30	Ehrlich, K.C. et al., "Identification and cloning of a second phytase gene (phyB) from <i>Aspergillus niger</i> (ficuum)," <i>Biochemical and Biophysical Research Communications</i> , 195(1): 53-57, 1993.
C31	Elander, R.P. "Microbial screening, selection and strain improvement," In <i>Basic Biotechnology</i> , edited by J. Bu'Lock et al., pp. 217-251, New York: Academic Press, 1987.
C32	Evan, G.I. et al., "Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product," <i>Molecular and Cellular Biology</i> , 5(12): 3610-3616, 1985.
C33	Field, J. et al., "Purification of a RAS-responsive adenyl cyclase complex from <i>Saccharomyces cerevisiae</i> by use of an epitope addition method," <i>Molecular and Cellular Biology</i> , 8(5):2159-2165, 1988.
C34	Finkelstein, D.B., "Transformation," In <i>Biotechnology of Filamentous Fungi: Technology and Products</i> , edited by D.B. Finkelstein et al., pp. 113-156, Boston, MA: Butterworth-Heinemann, 1992.
C35	Fiske, C.H. et al., "The Colorimetric Determination of Phosphorus," <i>J. Biol. Chem.</i> , 66: 375-400, 1925.

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C36	Fraser, C.M. et al., "Fish," In <i>The Merck veterinary manual: a handbook of diagnosis, therapy, and disease prevention and control for the veterinarian</i> , pp. 1268-1269, Rahway, N.J.: Merck & Co., 1991.
C37	Fromant, M. et al., "Direct random mutagenesis of gene-sized DNA fragments using polymerase chain reaction," <i>Anal. Biochem.</i> , 224(1): 347-353, 1995.
C38	Fungaro, M.H.P. et al., "Transformation of <i>Aspergillus nidulans</i> by microprojectile bombardment on intact conidia," <i>FEMS Microbiology Letters</i> , 125(2-3): 293-297, 1995.
C39	Gao, X. et al., "Unusual conformation of a 3'-thioformacetal linkage in a DNA duplex," <i>J. Biomol. NMR</i> , 4(1): 17-34, 1994.
C40	Gelvin, S.B. et al., "vir genes influence conjugal transfer of the Ti plasmid of <i>Agrobacterium tumefaciens</i> ," <i>J. Bacteriol.</i> , 172(3): 1600-1608, 1990.
C41	Gish, W. et al., "Identification of protein coding regions by database similarity search," <i>Nat. Genet.</i> , 3(3): 266-272, 1993.
C42	Golovan, S. et al., "Characterization and overproduction of the <i>Escherichia coli</i> appA encoded bifunctional enzyme that exhibits both phytase and acid phosphatase activities," <i>Can. J. Microbiol.</i> , 46(1): 59-71, 2000.
C43	Greiner, R. et al., "Purification and characterization of two phytases from <i>Escherichia coli</i> ," <i>Arch. Biochem. Biophys.</i> , 303(1):107-113, 1993.
C44	de Groot, M.J.A. et al., "Agrobacterium tumefaciens-mediated transformation of filamentous fungi," <i>Nat. Biotech.</i> , 16(9): 839-842, 1998.
C45	Grunstein, M. et al., "Colony Hybridization: A Method for the Isolation of Cloned DNAs that Contain a Specific Gene," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 72(10): 3961-3965, 1975.
C46	Harayama, S., "Artificial evolution by DNA shuffling," <i>Trends Biotechnol.</i> , 16(2): 76-82, 1998.
C47	van Hartingsveldt, W. et al., "Cloning, characterization and overexpression of the phytase-encoding gene (phyA) of <i>Aspergillus niger</i> ," <i>Gene</i> , 127(1): 87-94, 1993.
C48	Henikoff, S. et al., "Amino Acid Substitution Matrices from Protein Blocks," <i>Proc. Natl. Acad. Sci. USA</i> , 89: 10915-10919, 1992.
C49	Henke, E. et al., "Directed Evolution of an Esterase from <i>Pseudomonas fluorescens</i> . Random Mutagenesis by Error-Prone PCR or a Mutator Strain and Identification of Mutants Showing Enhanced Enantioselectivity by a Resorufin-Based Fluorescence Assay," <i>Biological Chemistry</i> , 380(7-8):1029-1033, 1999.
C50	Herdewijn, P. et al., "Hexopyranosyl-Like Oligonucleotides," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 80-99. Washington, D.C., American Chemical Society, 1994.
C51	Higgins, D.G. et al., "CLUSTAL V: improved software for multiple alignment," <i>CABIOS</i> 8: 189-191, 1992.
C52	Hopp, T.P. et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Nat. Biotech.</i> , 6(10): 1204-1210, 1988.
C53	Horn, T. et al. "Oligonucleotides with alternating anionic and cationic phosphoramidate linkages: Synthesis and hybridization of stereo-uniform isomers," <i>Tetrahedron Letters</i> , 37(6): 743-746, 1996.
C54	Inoue, H. et al., "High efficiency transformation of <i>Escherichia coli</i> with plasmids," <i>Gene</i> , 96(1): 23-28, 1990.
C55	Jenkins, G.N. et al., "The biosynthesis of carbocyclic nucleosides," <i>Chem. Soc. Rev.</i> , 24(3): 169-176, 1995.

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C56	Jeroch, V.H. et al., "Zur Wirksamkeit Mikrobieller Phytase zu Legehennenrationen auf Mais-bzw. Weizenbasis," <i>Die Bodenkultur</i> , 45: 361-368, 1994.
C57	Jung, P.M. et al., "Hybridization of Alternating Cationic/Anionic Oligonucleotides to RNA – Segments," <i>Nucleotides and Nucleosides</i> , 13(6 and 7):1597-1605, 1994.
C58	Karlin, S. et al., "Applications and statistics for multiple high-scoring segments in molecular sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 90(12): 5873-5877, 1993.
C59	Kerovuo, J. et al., "Isolation, Characterization, Molecular Gene Cloning, and Sequencing of a Novel Phytase from <i>Bacillus subtilis</i> ," <i>Appl. Environ. Microbiol.</i> , 64(6): 2079-2085, 1998.
C60	Kerovuo, J. et al. "Analysis of myo-inositol hexakisphosphate hydrolysis by <i>Bacillus</i> phytase: indication of a novel reaction mechanism," <i>Biochemical Journal</i> , 352(Pt 3): 623–628, 2000.
C61	Kiedrowski, G. et al., "Parabolic Growth of a Self-Replicating Hexadeoxynucleotide Bearing a 3'-5'-Phosphoramidate Linkage," <i>Angewandte Chemie International Edition in English</i> , 30(4):423-426, 1991.
C62	Kornegay, E.T. et al., "Response of Broilers to Graded Levels of Microbial Phytase Added to Maize-soyabean-Meal-Based Diets Containing Three Levels of Non-Phytate Phosphorus," <i>British Journal of Nutrition</i> , 75(06): 839-852, 1996.
C63	Kostrewa, D. et al., "Crystal structure of phytase from <i>Aspergillus ficuum</i> at 2.5 Å resolution," <i>Nat. Struct. Mol. Biol.</i> 4(3):185-190, 1997.
C64	Lehmann, M. et al., "From DNA sequence to improved functionality: using protein sequence comparisons to rapidly design a thermostable consensus phytase," <i>Protein Eng.</i> , 13(1): 49-57, 2000.
C65	Letsinger, R.L. et al., "Effects of pendant groups at phosphorus on binding properties of d-ApA analogues," <i>Nucleic Acids Res.</i> , 14(8): 3487–3499, 1986.
C66	Letsinger, R.L. et al., "Phosphoramidate analogs of oligonucleotides," <i>J. Org. Chem.</i> , 35(11):3800-3803, 1970.
C67	Letsinger, R.L. et al., "Cationic oligonucleotides," <i>J. Am. Chem. Soc.</i> , 110(13): 4470-4471, 1988.
C68	Leung, D.W. et al., "A method for random mutagenesis of a defined DNA segment using a modified polymerase chain reaction," <i>Technique</i> , 1(1): 11-15, 1989.
C69	Lim, D. et al., "Crystal structures of <i>Escherichia coli</i> phytase and its complex with phytate," <i>Nat. Struct. Mol. Biol.</i> 7(2):108-113, 2000.
C70	Ling, M.M. et al., "Approaches to DNA mutagenesis: an overview," <i>Anal. Biochem.</i> , 254(2): 157-178, 1997.
C71	Lutz-Freyermuth, C. et al., "Quantitative determination that one of two potential RNA-binding domains of the A protein component of the U1 small nuclear ribonucleoprotein complex binds with high affinity to stem-loop II of U1 RNA," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 87(16):6393–6397, 1990.
C72	Madden, T.L. et al., "Applications of network BLAST server," <i>Meth. Enzymol.</i> , 266:131-41, 1996.
C73	Maddry, J.A. et al., "Synthesis of Nonionic Oligonucleotide Analogues," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 40-51, Washington, D.C., American Chemical Society, 1994.
C74	Mag, M. et al. "Synthesis and selective cleavage of an oligodeoxynucleotide containing a bridged internucleotide 5'-phosphorothioate linkage," <i>Nucleic Acids Res.</i> , 19(7):1437-1441, 1991.

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C75	Martin, G.A. et al., "GAP domains responsible for ras p21-dependent inhibition of muscarinic atrial K ⁺ channel currents," <i>Science</i> , 255(5041):192-194, 1992.
C76	Meier, C. et al., "Peptide Nucleic Acids(PNAs) - Unusual Properties of Nonionic Oligonucleotide Analogues," <i>Angewandte Chemie International Edition in English</i> , 31(8):1008-1010, 1992.
C77	Melnikov, A. et al., "Random mutagenesis by recombinational capture of PCR products in <i>Bacillus subtilis</i> and <i>cinetobacter calcoaceticus</i> ," <i>Nucl. Acids Res.</i> , 27(4):1056-1062, 1999.
C78	de Mesmaeker, A. et al., "Comparison of rigid and flexible backbones in antisense oligonucleotides," <i>Bioorganic & Medicinal Chemistry Letters</i> , 4(3): 395-398, 1994.
C79	de Mesmaeker, A. et al., "Novel Backbone Replacements for Oligonucleotides," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 24-39, Washington, D.C., American Chemical Society, 1994.
C80	Mitchell, D.B. et al., "The phytase subfamily of histidine acid phosphatases: isolation of genes for two novel phytases from the fungi <i>Aspergillus terreus</i> and <i>Myceliophthora thermophila</i> ," <i>Microbiology</i> , 143(1): 245-252, 1997.
C81	Murry, L.E. "Genetic Engineering." In <i>McGraw Hill Yearbook of Science and Technology</i> , pp. 189-196. New York, McGraw Hill, 1992.
C82	Myers, R.M. et al., "A general method for saturation mutagenesis of cloned DNA fragments," <i>Science</i> , 229(4710):242-247, July 19, 1985.
C83	Needleman, S.B. et al., "A general method applicable to the search for similarities in the amino acid sequence of two proteins," <i>J. Mol. Biol.</i> , 48(3):443-453, 1970.
C84	Oakley, B.R. et al., "Cloning, mapping and molecular analysis of the pyrG (orotidine-5'-phosphate decarboxylase) gene of <i>Aspergillus nidulans</i> ," <i>Gene</i> , 61(3): 385-399, 1987.
C85	Ostanin, K. et al., "Overexpression, site-directed mutagenesis, and mechanism of <i>Escherichia coli</i> acid phosphatase," <i>J. Biol. Chem.</i> , 267(32):22830-22836, 1992.
C86	Ostanin, K. et al., "Asp ³⁰⁴ of <i>Escherichia coli</i> acid phosphatase is involved in leaving group protonation," <i>J. Biol. Chem.</i> , 268(28):20778-20784, 1993.
C87	Paborsky, L.R. et al., "Mammalian cell transient expression of tissue factor for the production of antigen," <i>Protein Eng.</i> , 3(6):547-553, 1990.
C88	Pandey, A. et al., "Production, purification and properties of microbial phytases," <i>Bioresource Technology</i> , 77(3):203-214, 2001.
C89	Pasamontes, L. et al., "Cloning of the phytases from <i>Emericella nidulans</i> and the thermophilic fungus <i>Talaromyces thermophilus</i> ," <i>Biochim. Biophys. Acta</i> , 1353(3): 217-223, 1997.
C90	Pasamontes, L. et al., "Gene cloning, purification, and characterization of a heat-stable phytase from the fungus <i>Aspergillus fumigatus</i> ," <i>Appl. Environ. Microbiol.</i> , 63(5): 1696-1700, 1997.
C91	Pauwels, R., "Biological Activity of New 2-5A Analogues," <i>Chemica Scripta</i> , 26: 141-145, 1986.
C92	Pearson, W.R. et al., "Improved Tools for Biological Sequence Comparison," <i>Proc. Natl. Acad. Sci. USA</i> , 85(8):2444-2448, 1988.
C93	Piddington, C.S. et al., "The cloning and sequencing of the genes encoding phytase (phy) and pH 2.5-optimum acid phosphatase (aph) from <i>Aspergillus niger</i> var. <i>awamori</i> ," <i>Gene</i> , 133(1): 55-62, 1993.

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C94	Powar, V.K. et al., "Purification and properties of phytate-specific phosphatase from <i>Bacillus subtilis</i> ," <i>J. Bacteriol.</i> 151(3):1102-1108, 1982.
C95	Qi, Y. et al., "The pst operon of <i>Bacillus subtilis</i> has a phosphate-regulated promoter and is involved in phosphate transport but not in regulation of the pho regulon," <i>J. Bacteriol.</i> 179(8): 2534-2539, 1997.
C96	Rawls, R. L., "Optimistic about Antisense," <i>Chemical & Engineering News</i> , 75(22): 35-39, 1997.
C97	Rodriguez, E. et al., "Cloning, Sequencing, and Expression of an <i>Escherichia coli</i> Acid Phosphatase/Phytase Gene (appA2) Isolated from Pig Colon," <i>Biochemical and Biophysical Research Communications</i> , 257(1):117-123, 1999.
C98	Rodriguez, E. et al., "Site-Directed Mutagenesis Improves Catalytic Efficiency and Thermostability of <i>Escherichia coli</i> pH 2.5 Acid Phosphatase/Phytase Expressed in <i>Pichia pastoris</i> ," <i>Archives of Biochemistry and Biophysics</i> , 382(1): 105-112, 2000.
C99	Rogers, S.G. et al., "Gene Transfer in Plants: Production of Transformed Plants Using Ti Plasmid Vectors," In <i>Methods for Plant Molecular Biology</i> , edited by A. Weissbach et al., pp. 423-436. New York, Academic Press, 1988.
C100	Roland, D.A. et al., "Influence of calcium and environmental temperature on performance of first-cycle (phase 1) commercial leghorns," <i>Poultry Science</i> , 75(1):62-8, 1996.
C101	Sanchez, O. et al., "Efficient transformation of <i>Aspergillus nidulans</i> by electroporation of germinated conidia," <i>Fungal Genet. Newsletter</i> , 43:48-51, 1996.
C102	Sanger, F. et al., "DNA Sequencing with Chain-Terminating Inhibitors," <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 74(12):5463-5467, 1977.
C103	Sawai, H., "Synthesis and properties of oligoadenylic acids containing 2'-5' phosphoramidate linkage," <i>Chemistry Letters</i> , (5):805-808, 1984.
C104	Schwartz, R.M. et al., "Matrices for detecting distant relationships," In <i>Atlas of Protein Sequence and Structure</i> , edited by M.O. Dayhoff, 5 supp. 3:pp. 345-352, Silver Spring, MD, National Biomedical Research Foundation, 1978.
C105	Shimizu, M., "Purification and Characterization of Phytase from <i>Bacillus subtilis</i> (natto) N-77," <i>Bioscience, Biotechnology, Biochemistry</i> , 56(8):1266-1269, 1992.
C106	Simons, P.C.M. et al., "Improvement of Phosphorus Availability by Microbial Phytase in Broilers and Pigs," <i>British Journal of Nutrition</i> , 64(02):525-540, 1990.
C107	Skinner, R.H. et al., "Use of the Glu-Glu-Phe C-terminal epitope for rapid purification of the catalytic domain of normal and mutant ras GTPase-activating proteins," <i>J. Biol. Chem.</i> , 266(22):14163-14166, 1991.
C108	Smith, T.F. et al., "Comparison of biosequences," <i>Adv. Appl. Math.</i> , 2:482-489, 1981.
C109	Sojar, H.T. et al., "A chemical method for the deglycosylation of proteins," <i>Arch. Biochem. Biophys.</i> , 259(1):52-57, 1987.
C110	Sprinzi, M. et al., "Enzymatic Incorporation of ATP and CTP Analogues into the 3' End of tRNA," <i>European Journal of Biochemistry</i> , 81(3):579-589, 1977.
C111	Stemmer, W.P.C., "Rapid evolution of a protein in vitro by DNA shuffling," <i>Nature</i> , 370(6488):389-391, 1994.
C112	Takamatsu, N. et al., "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA," <i>EMBO J.</i> , 6(2): 307-311, 1987.
C113	Thotakura, N.R. et al., "Enzymatic deglycosylation of glycoproteins," <i>Meth. Enzymol.</i> , 138: 350-359, 1987.

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C114	Timberlake, W.E., "Cloning and Analysis of Fungal Genes," In <i>More Gene Manipulations in Fungi</i> , edited by J.W. Bennett et al., pp. 51-85, San Diego, CA, Academic Press, 1991.
C115	Tjalsma, H. et al., "Signal Peptide-Dependent Protein Transport in <i>Bacillus subtilis</i> : a Genome-Based Survey of the Secretome," <i>Microbiol. Mol. Biol. Rev.</i> , 64(3):515-547, 2000.
C116	Ullah, A.H.J. et al., "Extracellular Phytase (E. C. 3.1.3.8) from <i>Aspergillus Ficum</i> NRRL - 3135: Purification and Characterization," <i>Preparative Biochemistry</i> , 17(1):63, 1987.
C117	Weber, K.L. et al., "Rapid acquisition of unknown DNA sequence adjacent to a known segment by multiplex restriction site PCR," <i>BioTechniques</i> , 25(3): 415-419, 1998.
C118	Weidner, G. et al., "Development of a homologous transformation system for the human pathogenic fungus <i>Aspergillus fumigatus</i> based on the pyrG gene encoding orotidine 5"-monophosphate decarboxylase," <i>Current Genetics</i> , 33(5):378-385, 1998.
C119	Winter, J. et al., "The expression of heat shock protein and cognate genes during plant development," <i>Results and Problems in Cell Differentiation</i> , 17:85-105, 1991.
C120	Wodzinski, R.J. et al., "Phytase," In <i>Advances in Applied Microbiology</i> , 42:pp. 263-302. http://www.sciencedirect.com/science/article/B7CSY-4S8VDD6-7/2/362d9c0f18191d689512ab68d6232128 , New York: Academic Press, 1996.
C121	Wyss, M. et al., "Biochemical Characterization of Fungal Phytases (myo-Inositol Hexakisphosphate Phosphohydrolases): Catalytic Properties," <i>Appl. Environ. Microbiol.</i> , 65(2):367-373, 1999.
C122	Yamada, K. et al., "Phytase from <i>Aspergillus terreus</i> ," <i>Agr. Biol. Chem.</i> , 32(10):1275-1282, 1968.

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